



## Earthquake Experiment Lab Sheet

**The objective of this experiment is to show one of the reasons that an earthquake may be more dangerous in one area than another.**

### **Experiment description:**

1. Hypothesis formulation.

What is your theory about what will happen in this experiment?

2. Two tubs are filled with dry sand.

3. Water is added to one of the tubs.

4. A simulated building (brick) is balanced on the sand in the tub.

5. The tubs are shaken using an orbital sander.

6. Results are observed and timed.

### **TUB 1- The Dry sand (The part of San Francisco built on dry soil )**

Times: 1.

2.

3.

4.

Total time:\_\_\_\_\_Average time:\_\_\_\_\_

### **TUB 2 - The wet sand (The part of San Francisco built on filled-in Bay)**

Times: 1.

2.

3.

4.

Total time:\_\_\_\_\_Average time:\_\_\_\_\_

### **Conclusions:**

Was your hypothesis correct?

If you had a choice where would you build your house?

What are some other hypotheses you can test?